{	Application No. Applicant(s)			
Notice of Allowability	10/602,143	COK ET AL.		
	Examiner	Art Unit		
	Matthew Landau	2815		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED i) or other appropriate comm (IGHTS. This application is	n this application. If not include unication will be mailed in due	led course. THIS	
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	August 13, 2004.			
2. The allowed claim(s) is/are <u>1-9,11-17,20-27 and 30-38</u> .				
3. \boxtimes The drawings filed on <u>13 August 2004</u> are accepted by the	e Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents hav 2. ☐ Certified copies of the priority documents hav 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm	e been received. e been received in Application ocuments have been received of this communication to file MENT of this application.	on No Indicate the stage of the stage applicated in this national stage applicated in the stag	equirements	
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath o	r declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") mu		•		
(a) ☐ including changes required by the Notice of Draftsper	<u>=</u>	w (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		nin Alex Office and one		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment o	i in the Office action of		
ldentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	l.84(c)) should be written on t the header according to 37 Cl	he drawings in the front (not th FR 1.121(d).	e back) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413), Paper No./Mail Date		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/I	08), 7. ⊠ Examiner's —	Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for All	owance	
of Biological Material	9.	TOM THOSES TO TOM THOSES TO THE THOSES TO THE THOSES TO THE THOSES TO THE THOSE THOSES TO THE THOSE TH	ე ექ გორ	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Raymond Owens (Reg. #22,363) on November 29, 2004.

Please amend the claims as follows:

- 20. (currently amended) A laser emitting apparatus, comprising:
- a) an optically transparent layer;
- b) an incoherent light emitting device including:
- i) a first transparent electrode located on one side of the optically transparent layer;
- ii) a light emissive layer adjacent the first electrode to produce a pump beam light which is transmitted out of the incoherent light-emitting device through the first transparent electrode and the optically transparent layer;
 - iii) a second electrode adjacent the light emissive layer;
- c) a vertical laser cavity structure located on the other side of the optically transparent layer and disposed to receive the pump beam light transmitted from the incoherent light-emitting device through the optically transparent layer, such structure including:

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i) a first DBR mirror for receiving and transmitting light from the incoherent light-emitting device and being reflective to laser light over a predetermined range of wavelengths;

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- ii) an incoherent organic active layer for receiving transmitted light from the first DBR mirror and for producing laser light; and
- iii) a second DBR mirror for reflecting transmitted OLED incoherent light and laser light from the incoherent organic active layer back into the incoherent organic active layer and for transmitting laser light; and
 - d) a substrate located adjacent to either the second electrode or the second DBR mirror.
 - 30. (currently amended) A laser emitting apparatus, comprising:
 - a) an optically transparent layer;
 - b) an incoherent light emitting device including:
- i) a first transparent electrode located on one side of the optically transparent layer;
- ii) a light emissive layer adjacent the first electrode to produce a pump beam light which is transmitted out of the incoherent light-emitting device through the first transparent electrode and the optically transparent layer;
 - iii) a second electrode adjacent the light emissive layer,
- c) a vertical laser cavity structure disposed to receive a pump beam light transmitted from the incoherent light-emitting device through the optically transparent layer, such structure including:

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i) a first DBR mirror for receiving and transmitting light from the organic incoherent light-emitting device and being reflective to laser light over a predetermined range of wavelengths;

- ii) an organic active layer for receiving transmitted OLED incoherent light from the first DBR mirror and for producing laser light; and
- iii) a second DBR mirror for reflecting transmitted OLED incoherent light and laser light from the organic active layer back into the organic active layer, the first DBR mirror being adapted to transmit laser light; and
 - d) a substrate located adjacent to either the second electrode or the second DBR mirror.

Drawings

The drawings were received on August 13, 2004. These drawings are acceptable.

Terminal Disclaimer

The terminal disclaimer filed on August 13, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent No. 6,658,037, has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1-9, 11-17, 20-27, and 30-38 allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record, either singularly or in combination, does not disclose or suggest the combination of

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limitations including a vertical laser cavity structure disposed to receive the pump beam light transmitted from the incoherent light-emitting device through the optically transparent layer, such structure including an organic active layer for receiving light from the incoherent light-emitting device and from the first light-receiving means and for producing laser light.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion -

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Landau whose telephone number is (571) 272-1731.

The examiner can normally be reached from 8:30 AM - 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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Matthew C. Landau

Examiner

November 29, 2004